

Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

Volume 26 No. 8

September Dinner Meeting: Industrial Hygiene

Art and Science in the Application of Chemistry toward Health and Wellness, and "How do you go about solving an Indoor Air Quality Problem."

– Bill Wells, PhD, CIH, CSP –

Abstract

Dr. Wells will discuss how industrial hygienists use applied chemistry to anticipate, recognize, evaluate and control environmental factors arising from the workplace that may cause ill health or discomfort among workers or people in the community. This will include Sampling and Analysis, Applied Toxicology, Hazard Control Technology and effectively communicating the science behind Chemical Hazards to skeptical people. He will then describe: "How do you use the science to solve real world problems?"

Biography

Dr. Bill Wells is a Certified Industrial Hygienist and Certified Safety Professional with over 25 years of professional experience. He has been at Lawrence Livermore National Laboratory (LLNL) since 1999, first as an Industrial Safety and Health Instructor, Industrial Safety Subject Matter Expert and currently is an ES&H Team Leader. Bill is responsible for working with the Industrial Safety



discipline members on the ES&H Teams to develop and disseminate safety policies and guidance that is technically sound, compatible with regulations, and consistently applied across the

Laboratory. Prior to coming to LLNL, he was the senior safety and health professional at United Airlines for thirteen years with responsibility for developing, implementing safety, health and environmental programs for aircraft, ground equipment and facilities operations, maintenance and repair, customer safety, catering, computer operations and reservations services safety, world-wide. He worked for the US Navy as an industrial hygienist at Mare Island Shipyard and for the regional medical command coordinating occupational health support for facilities from Fresno, CA to Adak, AK. He has taught various Industrial Safety and Health courses at San Francisco State University and University of California Extensions at Berkeley and Davis. He was a member and past-chair of Air Transport

September Dinner Meeting

Date: September 16, 2004

Time: 6:00 PM Social Hour

7:00 PM Dinner

8:00 PM Lecture

Location: Palo Alto Elks Lodge
4249 El Camino Real
Palo Alto, CA 94306
650-493-4249

Speaker: Dr. Bill Wells, CIH, CSP
Lawrence Livermore
National Laboratories

Cost: \$15.00. Choice of roast pork and a vegetarian option, garlic mashed potatoes, vegetables, salad, bread, and dessert. No host bar available.

Reservations: www.scvacs.org
Shirley Radding
408-246-2564
408-296-8625 Fax

Reservations should be made by September 10th stating your name, address, company affiliation, number of people in party, and menu selection.

If you are unable to honor your reservation, you will be invoiced following the dinner meeting.

Receive the Newsletter Early!

See <http://www.scvacs.org/newsletter/> for details.

Association Industrial Safety Committee, and is currently a member of the American Conference of Industrial Hygienists (ACGIH) Chemical Substance Threshold Limit Values (TLV) Committee.

Chair's Message

I am writing this on July 4th. As I ponder the meaning of this holiday in our nation's history, I continue to be amazed and pleased with all the chemistry that comes to light on this great day. Of course, I am referring to the tremendous fireworks displays that fascinate and intrigue both young and old at public venues and in our own neighborhoods. These very intricate and delightful displays come to us as a result of the hard work of chemists and chemical pyrotechnicians from around the world. We are startled and awed by their brilliance and dancing nature, truly beautiful statements of celebration and yearning for good times. But, what about other light that chemistry brings to us, like the "rocket's red glare, the bombs bursting in air," and other statements of determination, success, and survival in a hostile world. What does all this mean? Well, for one thing, it means that chemistry is an essential part of our very being and, as practitioners of the art and science; we all need to keep it alive -- in our young people, students and, yes, even the rest of us. This was never more apparent to me as I conversed with many of the attendees at the annual wine tasting and summer picnic at Stanford, where the Section honored our new 50-year members. From the conversations and from their commentaries, they have all lived very interesting lives. Chemistry, and science as well, can be kept alive by keeping the conversation going, encouraging our school administrators and teachers at all levels to keep up their good work, and urging our legislators and government to find ways to keep all the sciences adequately supported and funded so that we can continue reap the benefits of causes to celebrate and experience less of the "rocket's red glare."

This autumn, we will be celebrating our 50 years as the Santa Clara Valley Section of the American Chemical Society. Keep watching this newsletter for the various events that are being scheduled along with the events of National Chemistry Week.

Also, you can check out <http://www.scvacs.org/>.

See you at our next meeting in September at the Palo Alto Elks Lodge. The topic of our speaker, Bill

Wells, is about chemistry, industrial hygiene and how we keep our workplaces safe to work in. Bill brings to the table many years of practical experience and his talk promises to be interesting to all of us. Plan to attend.

2004 ISEF Report

From May 9th to 15th, 2004, Dr. Roy Okuda and Dr. Howard Peters of our local section traveled at their personal expense to Portland, Oregon. They were volunteer judges of the 1,200 judges the 2004 Intel International Science and Engineering Fair. Over 1,200 high school students from forty countries around the world had science projects in all category areas. Intel Corporation provided the cash Grand Awards of over \$700,000.



Dr. Howard Peters and Dr. Roy Okuda confer during a break in the judging at ISEF Portland, Oregon on May 12.

In all science categories, Special Awards (cash and scholarship) to students from colleges, universities, corporations, professional societies, military (DOD) agencies, state and federal agencies, and other institutions totaled over \$3,000,000.00.

Three winners for Best of Show will receive a scholarship for \$50,000 and an all expense paid trip to the Nobel Prize Award ceremony which will be held at Stockholm in December.

Included in the two-day program was a panel discussion with four invited Nobel Laureates. One of the panelists was a chemist, Dr. Dudley Herschbach, a Harvard University professor who was from San Jose and was a Stanford undergraduate in the 1950's. Dr. Eve Menger (a chemist and

ACS member), President of Youth Experiencing Science (YES), was an overall local sponsor of this science fair. Our number one choice for the ACS Grand Award in chemistry was Arun Thottumkara, an 18-year old high school senior from Macomb, IL. He was at ISEF in San Jose in 2001 -- as a freshman, and had a paper in Tetrahedron Letters for his ISEF project in Louisville, KY. His father is a chemistry professor at Western Illinois University in Macomb, IL and encouraged him to apply for patent protection. Arun's understanding of his Green Chemistry organic compound synthesis and aqueous reactions project is equal to that of a second year graduate student; he will be attending Harvard University in the fall. He was also a winner in the ACS Special Awards, for the first article about ISEF to appear in years (refer page 68 in the June 14, 2004 issue of C&E News).

The 2005 ISEF will be held in May in Phoenix, AZ. More detailed information on Intel ISEF is available at <http://www.sciserv.org/isef/>.



A local team project for ice crystal phenomena of Samantha Van Anh Tran and Kristina Navarro Tubera of Presentation High School, San Jose were another set of award winners in Portland.

Which Was It? Picnic, Wine Tasting, or Awards Ceremony

It was all three! Your local section had 70 members in attendance at the Stanford Chemistry Department. After problems with bureaucratic paperwork, the ABC board granted our request to serve alcohol at our annual event! And it was good! Thanks to Floyd Hobbs for arranging for the



Dave Nehr Korn and Melanie Billigmeier drink some wine.

Cooper-Garrod Vineyards and their excellent wine.

Thanks also to Lois Durham and her friends at Stanford, Todd Eberspacher and Aileen Agustin, for taking care of all the little details at the Chemistry Department (Todd was the lucky one who did battle with the



Professor John Ross, Professor Henry Taube, and Howard Peters pose before getting their brisket.

ABC on Friday afternoon!).

Thanks to Sally Peters for arranging for the food. Austin's Restaurant from Mountain View did another excellent job catering the dinner. Next year, she will get a bigger cake for dessert!

It was good to meet some new people and catch-up with some old friends. Five of our fifty year members regaled us with stories of their years in industry and academia.

The Shirley Radding Award winner was announced, Dr. Maureen Chan, and will receive her award at the national meeting in Philadelphia. The Mosher Awardee has not been chosen yet, so there was no announcement about that. And, the Ottenberg Awardee will remain anonymous for a while longer!

According to Howard Peters we only lost 10 wine glasses this year; less than last year! So we are improving!

See you September 16th at the next local section dinner meeting!

2004 Shirley Radding Recipient Announced

This year's recipient of the Shirley B. Radding Award is Ms. Maureen G. Chan. She is a graduate of Chestnut Hill College (BS, 1961) and Stevens Institute of Technology (MS, 1965). She has been an ACS member since 1966 and is a member of the ACS Divisions of Chemical Education and Professional Relations and the Association for Women in Science.



Committee (PROPPACC), 1981-1983; Middle Atlantic Regional Councilor Caucus, Chair, 1989-1991.

Her service in the North Jersey Section includes Councilor, 2004, 1979-1996; Past Chair, 1987; Chair, 1986;

Chair-Elect, 1985; Secretary, 1990-1996; Career Services Committee, 1996-1999; Minority Affairs Committee, 1996-2004; Middle Atlantic Regional Meeting, Steering Committee, 1998-1999, 2002-present.

She has recently retired from AT&T Bell Laboratories, which she joined in 1962 and, where she was Technical Manager, Polymer Stabilization Group, 1984-94; Technical Manager, Polymer Chemistry, Advanced Applications and Stabilization Group, 1994-1996 reflecting her research interests in degradation pathways and the stabilization of polymers used in the telecommunication industry.

Maureen has requested that the award be presented to her at the forthcoming ACS National Meeting in Philadelphia. Detailed arrangements will be announced.



Chair George Lechner (far left) with our 50-year members at the conclusion of the awards ceremony.

Congratulations to Our 50-year Members!

Mr. John Atno	San Mateo
Dr. Michel Boudart	Atherton
Dr. Fu-Chuan Chao	Saratoga
Dr. Lois Jean Durham	Palo Alto
Mr. John Ansley Edwards	Los Altos
Mr. Raymond Howard	Cupertino
Mr. Edward Gipstein	Saratoga
Dr. Paul Kruger	Stanford
Mr. Stanley Martin	Emerald Hills
Dr. Theodore Mill	Menlo Park
Mr. Peter K. Mueller	Palo Alto
Dr. Roy Gerald Neville	Redwood City
Mr. Randolph Norton	Aptos
Dr. Thomas Oliver Passell	Palo Alto
Dr. Lewis John Throop	Los Altos Hills

View from the Board

Stanley Pine, ACS Director – District VI

Continuing my goal of communicating with the members, I want to bring you up to date on some of the ACS activities. I will try to keep you informed and ask that you do the same for me. You may also want to look at my web site: www.stanleypine.org.

American Institute of Chemical Engineers – You are probably aware that the ACS has begun talks with the American Institute of Chemical Engineers (AIChE) with the goal of cooperating on programs and activities of mutual interest. The “official” discussions, being carried out by a small committee appointed by the Board, are focusing on a number of cooperative programs and activities in areas which will serve the needs of the members of both organizations as well as the chemical enterprise while enhancing each group’s ability to achieve their missions.

Programming is an area of initial interest and several technical sessions were jointly sponsored at the Anaheim meeting. Many of the issues related to such cooperation were considered by many committees and other groups at the national meeting and about an hour was devoted to an open discussion of these issues at the council meeting.

William Byers, president of AIChE and John Sofranko, executive officer, stressed the ways in which working together will strengthen the value that both organizations bring to their members and the industries they serve. “In this era of rapid innovation and globalization, we can accomplish so much more by working together to advance science and technology, enhance the careers of scientists and engineers, and provide benefits to society”.

High School Chemistry Teacher Membership – A bylaw change that will identify the requirements for membership for pre-college teachers in the chemical sciences was introduced for consideration at Anaheim. The goal, which I have been promoting for several years, is to make these teachers feel welcomed into our professional

society. They are the ones responsible for providing high quality education for our children and we need to do everything possible to support and help them in those efforts. If passed by the council at the fall meeting in Philadelphia, you will get the opportunity to vote for the change in the late autumn.

Strategic Plan – A new ACS strategic plan was adopted as of the beginning of this year. The Strategic Plan is the guide for short and long term activities of the ACS, including financial management. Our objective was to be inclusive with the charter of the ACS that describes us an educational and scientific professional organization. Within that context, the Strategic Plan was designed to provide broad flexibility in achieving our goals while not being prescriptive in how that would be accomplished. It is up to the membership, through the ACS sections, divisions, and committee structure, to provide specific actions for the society. We invite your participation in making this plan work effectively for the membership.

Regional Meetings – I want to remind you that there is one more regional meeting this year in our District VI. In October, the Western Regional Meeting will be held in Sacramento. Check the ACS web site for more information and plan to attend.

SCV Wins Local Section Innovative Projects Grant

Volunteer to be a Student Career Coach

Great news! We have won a grant from national ACS to establish an outreach program to train volunteers to coach undergraduates in interviewing and job search skills. Our proposal was co-sponsored by the California Section, the AIChE Northern California Section, and local members of the Chemistry and The Law Division.

We plan to hold the first training session in early fall. The training will be based on programs developed by ACS Career Services. Our hope is to build a group of coaches who can work with students at area colleges

Chemistry Textbook – The ACS Education Division has just published a new textbook, “Chemistry”, designed for college freshman in chemistry and other sciences and engineering. It is another in the series of education projects which have proven very successful in changing and refocusing the direction of chemistry education at the pre-college and college levels. If you have any connection to the teaching of freshman chemistry, I urge you to look at the text (published by W. H. Freeman).

Beckman pH Meter Historic Chemical Landmark – On March 24th, the Southern California and Orange County Sections hosted a recognition ceremony at Caltech for the development of the Beckman pH meter. I encourage other local sections in our district to consider sites or activities that would warrant such recognition. It is an important and rewarding activity and brings the successes and impact of chemistry to the public.

Executive Director – Our new Executive Director, Madeleine Jacobs, has been on the job for several months now. She is making a significant impact through some high level reorganization and in particular through her enthusiastic and positive spirit. We are very excited and pleased with her leadership.

Log on to www.chemistry.org for the broadest connection to ACS and its services.

and universities to improve their interviewing skills, resume preparation, and job search strategies by holding workshops at area schools.

Help is needed to plan the training and develop plans for the student workshops as well as to attend the training and become a coach. This is a great opportunity to help the next generation of scientists (and possibly your own career skills as well). To volunteer or get more information, please contact Bonnie Charpentier by email at bcharpentier@genitope.com or office phone 650-472-2142.

Past-Chair Receives the 2004 Ellen Weaver Award

Maureen Scharberg received the 2004 Ellen Weaver Award from the Northern California Chapters of the Association for Women in Science (AWIS) on April 29th at Genentech. This award is given yearly to women who have served as mentors in supporting and promoting women in science.

The Ellen Weaver award is given to a woman who is relatively junior in her chosen field of science. In addition to scientific achievement, the award recipient will have placed a priority on mentoring and helping

other women in science. Dr. Weaver was the first Membership Chair for National AWIS. Dr. Weaver has been a member of AWIS since 1971, and served as National AWIS president from 1992-93. Dr. Weaver earned a B.A. in Chemistry, a M.A. in biological sciences from Stanford, and a PhD in genetics from UC Berkeley. She worked as an analytical chemist for the Manhattan Project, for Standard Oil of Ohio and the Stanford Research Institute, before joining the faculty of San Jose State University where she taught for many years. In addition,

Dr. Weaver served as Director of the San Jose State University Foundation and as Interim Executive Vice President. After retiring in 1991, she served as Associate Dean for Development in the College of Science. Dr. Weaver is an ardent conservationist and is on the board of the textbook league which works towards the improvement of secondary texts in science, history, social sciences, geography and health.

Congratulations Maureen!

Courtesy of
the Palo Alto Chapter of the AWIS.

CHEMPLOYMENT ABSTRACTS AUGUST 2004

CHEMPLOYMENT ABSTRACTS 3748

Position Title: Staff Scientist

Job Description: Synthesis and Development of processes used in the manufacturing of electro and photoactive materials. Physical and chemical characterization of organic and inorganic nanomaterials.

QUALIFICATIONS DESIRED

Education: MS or PhD in polymer or inorganic chemistry or related discipline, with strong interdisciplinary skills.

Experience: At least 3-5 yrs of hands-on bench synthesis experience. Good knowledge of principles of modern synthetic chemistry, lead optimization & structure activity relationships is essential. Knowledge & Experience with organometallic reagents. Experience performing electrochemistry and photochemistry. Knowledge of absorption spectroscopy, emission spectroscopy, thermal analysis, X-ray diffraction, electron microscopy & modern chromatographic techniques.

LOCATION, SALARY, MAIL ADDRESS

Location: Fremont

Description of Employer: UltraDots, Inc. Is a nano-material/nanotechnology based company

Application Instructions

Please email your resume to jobs@ultradots.com

CHEMPLOYMENT ABSTRACT 3749

Position Title: R&D Scientist

Job Description: To be part of a team that works on R&D of a controlled drug delivery implantable medical device. The position will require reasonable expertise in areas of controlled drug delivery, medical devices and biomaterials. This position is very hands-on and involves the use of wet chemistry, analytical techniques such as HPLC/MS, GC/MS, dissolution testing, etc.

QUALIFICATIONS DESIRED

Education: M.S. or Ph.D. in Biochemistry, Chemistry, Pharmacology or related areas

Experience: The ideal candidate will have a minimum of 5 years experience in the area of controlled drug delivery for medical devices with knowledge of polymer development. The candidate should understand drug/polymer interactions, solubility and diffusion. It is important that the candidate know HPLC/MS, GC/MS operations and methods development

LOCATION, SALARY, MAIL ADDRESS

Location: Mountain View, CA (local candidates only please)

Description of Employer: Broncus Technologies is developing Interventional Bronchoscopy devices for the treatment of emphysema. Broncus Technologies is singularly focused on developing proprietary and cost-effective technologies to address the unmet needs of patients with emphysema.

Application Instructions: Email your resume to hr@bronus.com, Fax resume to 650-428-1542. No phone calls please

CHEMPLOYMENT ABSTRACT 3750

Position Title: R&D Chemist

Job Description: The Chemist is responsible for performing chemical, pharmaceutical testing, validation, routine analysis of raw materials, drug stability, release testing, and product development support. Mastery of the day to day function of the R&D laboratory environment, which means maintaining and keeping current the SOP's and calibration of equipment & instruments.

QUALIFICATIONS REQUIRED

Education: B.S. or M.S. in Biochemistry, Chemistry or related areas

Experience: The ideal candidate will have experience working in a chemistry research lab and has expertise in handling lab chemicals, operation of analytical instruments such as HPLC/MS, GC/MS, UV-Vis FTIR

LOCATION, SALARY, MAIL ADDRESS

Location: Mountain View, CA (local candidates only please)

Description of Employer: Broncus Technologies is developing Interventional Bronchoscopy devices for the treatment of emphysema. Broncus Technologies is singularly focused on developing proprietary and cost-effective technologies to address the unmet needs of patients with emphysema.

Application Instructions:

Email resume to hr@bronus.com

Fax resume to 650-428-1542

No phone calls please.

CHEMPLOYMENT ABSTRACTS 3752

Position Title: Clinical Study Planner

Job Description: Manage entire proc of clinical study from inception to completion. Ability to bring multiple viewpoints/positions to final agreement. Good organizational skills with determined focus on team goals. Much flexibility to face ever changing priorities. Excellent communication skills

QUALIFICATIONS DESIRED

Education: BA,BS science related major-MAJOR-CERTIFIED MT, PHLEBOTOMIST, OR NURSE A.

Experience: 2-5 yrs in clinical setting working with clinical specimens. CLIA certified laboratory and/or other clinical exp. Good skills with relational DB exp a plus. Understanding of collection, processing, storage of various human clinical specimens.

LOCATION, SALARY, MAIL ADDRESS

Location: Redwood City

Salary: \$65-75K

Description of Employer: Investments have been made to assure we continue as a world-class biotechnology organization serving several markets.

Application Instructions:

Send resume to bspisak@nelsonstaffing.com or bspisak@nelsonhr.com

CHEMPLOYMENT ABSTRACT 3753

Position Title: Scientist I/II

Job Description: Our top priority drug discovery projects require the skills of a synthetic chemist for independent synthesis, purification and characterization of parallel synthesis libraries of compounds, as well as multi-step serial synthesis. Detailed routine documentation and formal presentation of all work plus literature and compound database searches will also be necessary.

QUALIFICATIONS DESIRED

Education: Bachelor's degree, Master's degree or PhD in Synthetic Chemistry

Experience: 0-2 years relevant experience depending on degree plus proven ability to independently set up, execute and monitor a variety of synthetic reactions. Experience in all types of purification and characterization techniques and excellent understanding of all aspects of modern, multi-step synthetic chemistry methods are essential.

LOCATION, SALARY, MAIL ADDRESS

Location: San Diego, CA

Employer Description: Vertex Pharmaceuticals is leading the way in small molecule drug discovery. We have developed a broad array of promising drug candidates expected to launch in the coming years. It's a pipeline packed with huge potential.

Application Instructions:

Apply on-line at www.vrtx.com referencing Job No.111AT. EOE.

CHEMICAL ABSTRACT 3754

Position Title: Research Associate II/Sr. Research Associate

Job Description: We seek experienced individuals to apply their expertise to the design and synthesis of novel small molecule therapeutics in dynamic project teams.

QUALIFICATIONS DESIRED

Education: Experienced BS and MS candidates

Experience: Requires the ability to independently execute synthetic sequences in both serial and parallel formats. Familiarity with contemporary synthetic and analytical techniques (TLC, flash chromatography, HPLC, LC/MS, NMR, UV/VIS) is required, while experience in the pharmaceutical industry is desired.

LOCATION, SALARY, MAIL ADDRESS

Location: San Diego, CA

Employer Description: Vertex Pharmaceuticals is leading the way in small molecule drug discovery. We have developed a broad array of promising drug candidates expected to launch in the coming years. It's a pipeline packed with huge potential.

Application Instructions:

Apply on-line at www.vrtx.com referencing Job No. 422AT. EOE.

ChemPloyment ONLINE

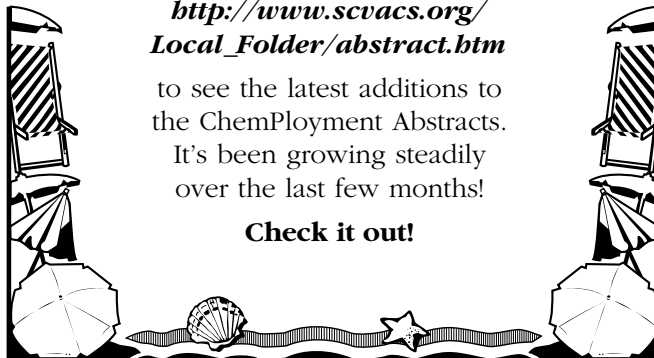
ChemPloyment is not only in the newsletter

– it is also on the web! Visit:

[http://www.scvacs.org/
Local_Folder/abstract.htm](http://www.scvacs.org/Local_Folder/abstract.htm)

to see the latest additions to the ChemPloyment Abstracts. It's been growing steadily over the last few months!

Check it out!





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CHEMEMPLOYMENT ABSTRACTS

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SANTA CLARA VALLEY SECTION

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Chair-Elect: **John F. Riley** 650-328-4036 jfriley@atdial.net
Secretary: **Karl Marhenke** 831-479-6263 karlmar@armory.com
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2002-04: **Herb Silber** 408-924-4954 hbsilber@sjsuvm1.sjsu.edu
2003-05: **Maureen Scharberg** 408-924-4966 scharbrg@pacbell.net
2003-05: **John F. Riley** 650-328-4036 jfriley@atdial.net
2003-05: **Ean Warren** 650-329-4554 ewarren@scvacs.org
2004-06: **Linda Brunauer** 408-554-6947 lbrunauer@scu.edu
2004-06: **Sally Peters** 650-812-4994 sally.peters@parc.com
2004-06: **Peter Rusch** 650-961-8120 pfrusch@aol.com

Alternate Councilors

2002-04: **Mark Kent** 408-736-0989 makent@earthlink.net
2003-05: **David Parker** 408-615-4961 dparker@ci.santa-clara.ca.us
2003-05: **Laura Jarvis** 650-210-1242 lj Jarvis@scvacs.org
2003-05: **Asfia Qureshi** 408-732-1705 asfiq@yahoo.com
2004-06: **George Lechner** 408-226-7262 george.lechner@usa.xerox.com
2004-06: **Carol Mosher** 650-322-3120 cmosher2@aol.com
2004-06: **Ernest Gargas** 408-365-2866 eggargas@yahoo.com

Newsletter

Editor: **Laura Jarvis** 650-210-1242 editor@scvacs.org

ChemPloyment Abstracts

Director: **Shirley B. Radding** 408-246-2564 sradding@att.net

FUTURE MEETINGS

- Aug 4** SCVACS Executive Committee Meeting
Palo Alto, CA
- Aug 22-26** ACS National Meeting
Philadelphia, PA
- Sep 16** SCV Dinner Meeting
Dr. William Wells
Palo Alto, CA
- Oct 17-23** National Chemistry Week
- Oct 21-22** SCV 50th Anniversary Celebration
- Oct 22** Founders Luncheon
- Oct 22-23** Johnson Symposium
Stanford University
- Oct 27-30** 39th Western Regional Meeting
Sacramento, CA

For the latest information, please visit
SCV/ACS web site: www.scvacs.org



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